Appl. No. 10/765,808 Attorney Docket No.: N1085-00256 [TSMC2003-0899]

Amdt. dated 05/18/2006

Response to Office Action of 02/24/2006

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1 1. (Currently Amended) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and hardware that is formed of a material that includes oxygen
- 3 impregnated therein such that said oxygen is released when an etching operation is
- 4 carried out.
- 1 2. (Original) The plasma etching apparatus as in claim 1, wherein said chuck is
- 2 substantially circular and said hardware comprises a focus ring that peripherally
- 3 surrounds said chuck.
- 1 3. (Original) The plasma etching apparatus as in claim 1, wherein said chuck is
- 2 substantially circular and said hardware comprises a focus ring that is annular in shape
- 3 and at least a portion of said focus ring substantially continuously extends below a
- 4 peripheral portion of said chuck.
- 1 4. (Original) The plasma etching apparatus as in claim 1, wherein said chuck
- 2 comprises an electrostatic chuck.
- 1 5. (Original) The plasma etching apparatus as in claim 1, wherein said hardware
- 2 comprises a focus ring composed primarily of quartz.
- 1 6. (Original) The plasma etching apparatus as in claim 1, wherein said hardware
- 2 comprises a focus ring formed of a ceramic.
- 1 7. (Original) The plasma etching apparatus as in claim 2, further comprising a
- 2 further focus ring, said focus ring and said further focus ring forming a focus ring set that
- 3 peripherally surrounds said chuck.

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- 1 8. (Currently Amended) A plasma etching apparatus comprising a chuck for
- 2 retaining a substrate and a focus ring, at least one of said chuck and said focus ring
- 3 formed of a material that includes including oxygen therein such that said oxygen is
- 4 released when an etching operation is carried out.
- 5 9. (Currently Amended) [[A]] The plasma etching apparatus as in claim 1, wherein
- 6 said hardware comprises a focus ring and further comprising an etch-chamber including
- 7 therein a focus ring and a chuck for retaining a substrate, said focus ring maintainable
- 8 at a temperature no greater than a temperature of said substrate while an etching
- 9 operation is carried out upon said substrate.
- 1 10. (Original) The plasma etching apparatus as in claim 9, wherein said chuck
- 2 comprises an electrostatic chuck and said substrate comprises a semiconductor
- 3 substrate.
- 1 11. (Original) The plasma etching apparatus as in claim 9, wherein said focus ring
- 2 maintains contact with said electrostatic chuck and said electrostatic chuck is cooled
- 3 during said etching operation.
- 1 12. (Original) The plasma etching apparatus as in claim 11, wherein said focus ring
- 2 is disposed peripherally around said substrate and includes a portion that rests on an
- 3 annular landing section of electrostatic chuck.
- 1 13-28. (Cancelled)
- 1 29. (New) A plasma etching apparatus comprising a chuck for retaining a substrate
- 2 and a focus ring peripherally surrounding said chuck and formed of a focus ring material
- 3 that includes oxygen throughout the focus ring material, such that said oxygen is
- 4 released when an etching operation is carried out.

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- 1 30. (New) A plasma etching apparatus comprising a chuck for retaining a substrate
- 2 and formed of an oxygen-impregnated material, and a focus ring peripherally
- 3 surrounding said chuck.
- 1 32. (New) The plasma etching apparatus as in claim 30, wherein said chuck
- 2 comprises an electrostatic chuck.
- 1 32. (New) The plasma etching apparatus as in claim 31, wherein said chuck is
- 2 disposed within an etching chamber and further comprising said etching chamber
- 3 containing therein further hardware formed of said oxygen-impregnated material.
- 1 33. (New) A plasma etching apparatus comprising a chuck for retaining a substrate
- 2 and a focus ring peripherally surrounding said chuck and formed of a focus ring material
- 3 that includes oxygen throughout the focus ring material, such that said oxygen is
- 4 released when an etching operation is carried out, the focus ring maintainable at a
- 5 temperature no greater than a temperature of said substrate while said etching
- 6 operation is carried out upon said substrate.